



*Vanasse Hangen Brustlin, Inc.*

March 30, 2007

Ref: 40938.00

Mr. Steven Blevins  
Infinigy Engineering, PLLC  
300 Great Oaks Boulevard  
Suite 312  
Albany, NY 12203

Re: Proposed Wireless Telecommunications Facility  
Redding Ridge Fire Department  
186 Black Rock Turnpike  
Redding, CT  
Sprint PCS ID #CT54XC768

Dear Mr. Blevins:

Vanasse Hangen Brustlin, Inc. (VHB) has been retained by Infinigy Engineering, PLLC (Infinigy), on behalf of Sprint Spectrum, L.P. ("Sprint PCS"), to review environmental resource information outlined in 47 CFR Ch.1 § 1.1307 sections (a) and (b) for environmental consequences pursuant to the Federal Communications Commission ("FCC or Commission") requirements. VHB understands that Sprint PCS is proposing to construct a new wireless telecommunications facility at the Redding Ridge Fire Department, 186 Black Rock Turnpike in Redding, Connecticut (Sprint PCS #CT54XC768). The facility will consist of a ±120-foot tall monopole, antenna, and associated ground equipment to be situated at the base of the monopole. The existing ±75-foot tall lattice tower facility will be removed. The new ±120-foot tall monopole facility will be installed approximately 15 feet east of the existing facility within a chain-link fence enclosed compound area. Access to the proposed facility will be provided via the existing asphalt-paved access drives off of Black Rock Turnpike. Specifically, VHB reviewed source information outlined below to determine if the proposed facility will be located in an environmentally sensitive area.

National Environmental Policy Act (NEPA) Requirements

As a licensing agency, the FCC complies with NEPA by requiring its licensees to review their proposed actions for environmental consequences. Rules implementing NEPA are found at Title 47 of the Code of Federal Regulations, Part 1, Subpart I, rule sections 1.1301 to 1.1319.

Section 1.1305 of these rules, state that the Commission "has found no common pattern which would enable it to specify" any particular Commission action as a "major action" under NEPA. Thus, section 1.1306 of the Rules "categorically excluded from environmental processing" all Commission actions except for those specifically identified in section 1.1307. If a licensee's proposed action falls within one of the categories of 1.1307, section 1.1308(a) requires the licensee to consider the potential environmental effects from its construction of antenna facilities or structures, and disclose those effects in an environmental assessment (EA) which is filed with the Commission for review.

54 Tuttle Place  
Middletown, Connecticut 06457-1847  
**860.632.1500 • FAX 860.632.7879**  
email: info@vhb.com  
www.vhb.com

VHB has reviewed the following source information for identification, location, and impacts to environmentally sensitive areas:

1. **Officially designated wilderness areas** - State of Connecticut, Department of Environmental Protection (CTDEP) Geographic Information System (GIS) data layers, CTDEP Natural Resources Center and Natural Diversity Data Base (NDDDB). See attached NEPA screen map prepared by VHB, Inc. and letter from CTDEP.
2. **Officially designated wildlife preserve** CTDEP GIS data layers, CTDEP Natural Resources Center and NDDDB. See attached NEPA screen map and letter from CTDEP.
3. **Threatened or Endangered Species or designated critical habitats** – CTDEP GIS data, CTDEP's Natural Resources Center and NDDDB, and United States Department of Interior – Fish and Wildlife Service, (USF&WS) New England Field Office. See attached NEPA screen map and letters from USF&WS and CTDEP.
4. **National Register of Historic Places** – State of Connecticut Commission on Cultural & Tourism, Historic Preservation & Museum Division, State Historic Preservation Officer (SHPO); National Register and Reported Archeological Sites Connecticut Geographic Information System data layer provided by Heritage Consultants, LLC; and public notice. Public notification of the proposed project was submitted to the Town of Redding municipal offices and the Town Historians and Historical Commission and legal notification was published in the Redding Pilot on November 16, 2006. See attached NEPA screen map prepared by VHB, Inc., SHPO letter, email from the town of Redding's First Selectman, and a copy of the legal notice.
5. **Indian Religious Sites** - State of Connecticut, Connecticut Commission on Cultural & Tourism, Historic Preservation & Museum Division SHPO, National Register and Reported Archeological Sites Connecticut Geographic Information System data layer provided by Heritage Consultants, LLC, and all interested Native American Tribes (NAT) and/or Native Hawaiian Organizations (NHO) identified on FCC's online Tower Construction Notification System (TCNS). As identified via FCC's TCNS, VHB consulted with the Delaware Nation Tribe, Mashantucket Pequot Tribe, and Narragansett Indian Tribe. See attached SHPO letter and letters from these NATs. Please note in the unlikely event that tribal artifacts or human remains are encountered during construction activities, excavation is required to be halted immediately and the appropriate NATs and SHPO are to be contacted as pursuant to Title 47 CFR Sec. 1.1312 of the Commission's rules.
6. **Flood Plain** – Flood Insurance Rate Maps (FIRM) by Federal Emergency Management Agency (FEMA) Federal Insurance Administration, Office of Risk Assessment 50 C Street, SW Washington, DC 20472. See attached NEPA screen map prepared by VHB, Inc.
7. **Significant change in surface features** – VHB conducted a wetland investigation at the Site. Based on field observations and information provided by Sprint PCS and its contractors, the proposed activity by Sprint PCS does not appear to involve a significant change in surface features or result in wetland fill, deforestation or water diversion. See attached letter prepared by VHB, Inc. dated February 1, 2007.



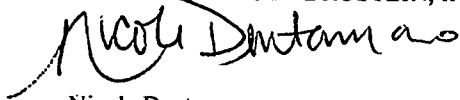
Mr. Steven Blevins  
Infinigy Engineering, PLLC  
Page 3

8. **High Intensity white lights located in residential neighborhoods** – No lighting information was provided to VHB. However, we understand that no lighting is required on this facility.

Based on the information currently available and provided that Sprint PCS meets the above referenced conditions for Indian Religious Sites, VHB has found that **the proposed facility does not fall under any of the listed categories of Section 1.1307 under the NPA**. The NEPA checklist and NEPA screen map, which outlines the location of the site and the location of the environmental resources, agency correspondence, and a copy of the Site Plans are attached to this letter.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.



Nicole Dentamaro  
Environmental/GIS Analyst

Attachments

cc: Tom Abernatha, Transcend Wireless LLC  
Maureen Muti, Sprint PCS  
Carlene M. Mercier, Brown Rudnick Berlack Israels LLP





Sprint PCS®

Site Contact Name: Mr. Steven Blevins	Site type (choose one): <input checked="" type="checkbox"/> Raw land <input type="checkbox"/> Tower colo* <input type="checkbox"/> Other colo*	Site Cascade ID: CT54XC768	Site Name & Address: 186 Black Rock Turnpike Redding, Connecticut		
NEPA Land Use Screening Checklist					
FCC NEPA Category	Consulting Agency to Contact	SSEO Document Reference	Check appropriate box(es) below		
			No Adverse Impact	Potential Adverse Impact	CNPA Applies - Exempt From Review*
1. Designated Wilderness Areas	National Park Service, US Forest Service, Bureau of Land Management (BLM), CTDEP GIS data layers and Natural Diversity Data Base (NDDB)	Section 3.4.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Designated Wildlife Preserves	National Park Service, US Forest Service, BLM, CTDEP GIS data layers and NDDB	Section 3.4.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Threatened or Endangered Species & Critical Habitats	NDDB, US Fish & Wildlife Service - Field Office (USF&WS)	Section 3.4.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Historic Places	State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO); Public Notice	Section 3.4.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Indian Religious Sites	SHPO, Tower Construction Notification System (TCNS) website -Native American Tribes (NATs), and/or Native Hawaiian Organizations (NHOs), Bureau of Indian Affairs (BIA)	Section 3.4.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Floodplain	Federal Emergency Management Agency (FEMA)	Section 3.4.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Wetlands & Surface Waterways	US Army Corps of Engineers (ACOE)	Section 3.4.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. High Intensity White Lights in Residential Neighborhoods	Lighting information, if applicable, to be provide by client via FAA form or other relevant lighting documentation	Section 3.4.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*\*Based on the Collocation Nationwide Programmatic Agreement (CNPA), the proposed collocation project is exempt from review of the FCC NEPA Category.

Prepared By: Nicole Dentamaro  
(print name): Nicole Dentamaro

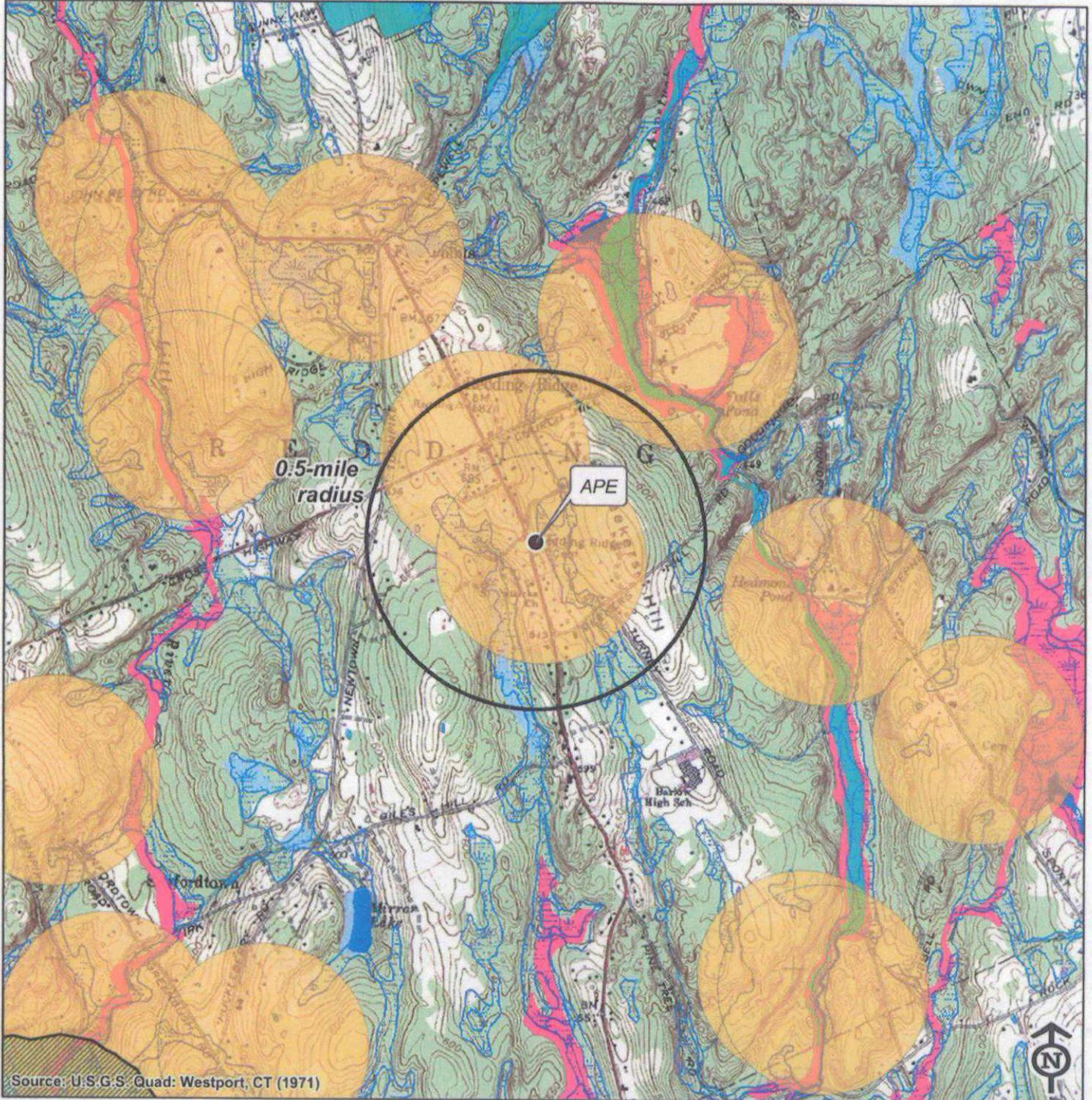
Company: Vanasse Hangen Brustlin, Inc.  
Date: March 30, 2007

The undersigned has reviewed and approved this Checklist prior to commencement of site construction.

By: \_\_\_\_\_  
Site Development Manager or Director

Date: \_\_\_\_\_





- Area of Potential Effect (APE)
- Natural Diversity Database Threatened and Endangered Species (updated December 2006, buffered)
- National Register Historic Sites\*
- National Register Historic Districts\*
- Reported Archaeological Sites (buffered)
- Open Water
- Wetlands
- Floodplains**
  - 100 Year Floodplain
  - 500 Year Floodplain
  - Floodway
- Protected Properties (CT DEP; 2002)**
  - State Forest
  - State Park
  - DEP Owned Waterbody
  - State Park Scenic Reserve
  - Historic Preserve
  - Natural Area Preserve
  - Fish Hatchery
  - Flood Control
  - Other
  - State Park Trail
  - Water Access
  - Wildlife Area
  - Wildlife Sanctuary
  - Protected Properties (Federal; 2002)

1,000 500 0 1,000 Feet

Vanasse Hangen Brustlin, Inc.

**NEPA Screen Map**  
**Proposed Replacement Facility**  
**Sprint PCS Site CT54XC768**  
**Lat: 41 18 35.82 Long: 73 20 51.39**  
**186 Black Rock Turnpike**  
**Redding, Connecticut**

February 27, 2007







STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



August 17, 2006

Nicole Dentamaro  
VHB, Inc.  
54 Tuttle Place  
Middletown, CT 06457

Re: Proposed Wireless  
Telecommunications, Facility  
Replacement, Redding Fire Department,  
186 Black Rock Tpke, Redding

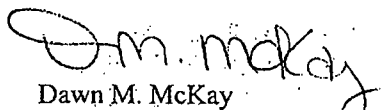
Dear Ms. Dentamaro:

I have reviewed Natural Diversity Data Base maps and files regarding the area delineated on the map you provided for the proposed wireless telecommunications facility replacement at 186 Black Rock Turnpike, Redding, Connecticut. According to our information there are no known extant populations of Federal or State Endangered, Threatened or Special Concern Species that occur at the site in question.

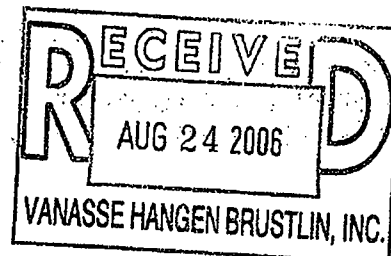
Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Natural Resources Center's Geological and Natural History Survey and cooperating units of DEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at 424-3592. Thank you for consulting the Natural Diversity Data Base. Also be advised that this is a preliminary review and not a final determination. A more detailed review may be conducted as part of any subsequent environmental permit applications submitted to DEP for the proposed site.

Sincerely,

  
Dawn M. McKay  
Biologist/Environmental Analyst

DMM/blm





## United States Department of the Interior

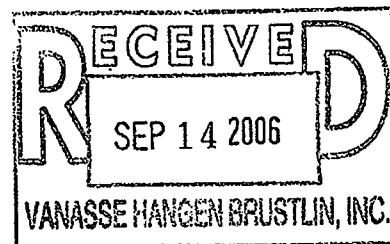
FISH AND WILDLIFE SERVICE  
New England Field Office  
70 Commercial Street, Suite 300  
Concord, New Hampshire 03301-5087



September 12, 2006

Reference:	<u>Project</u>	<u>Location</u>
	Tower	Redding, CT
	Tower	Lincoln, VT

Nicole Dentamaro  
Vanasse Hangen Brustlin, Inc.  
54 Tuttle Place  
Middletown, CT 06457-1847



Dear Ms. Dentamaro:

This responds to your recent correspondence requesting information on the presence of federally-listed and/or proposed endangered or threatened species in relation to the proposed activity(ies) referenced above.

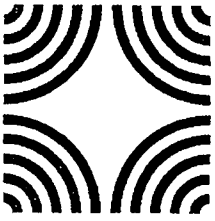
Based on information currently available to us, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under Section 7 of the Endangered Species Act is not required.

This concludes our review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your coordination. Please contact us at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Michael J. Amaral  
Endangered Species Specialist  
New England Field Office



Connecticut Commission on Culture & Tourism

November 9, 2006

Historic Preservation  
& Museum Division

59 South Prospect Street  
Hartford, Connecticut  
06106

(v) 860.566.3005  
(f) 860.566.5078

Ms. Nicole Dentamaro  
Vanasse Hangen Brustlin Inc.  
54 Tuttle Place  
Middletown, CT 06457-1847

Subject: Telecommunications Facilities  
186 Black Rock Turnpike  
Redding, CT  
Sprint PCS #CT54XC768

Dear Ms. Dentamaro:

The State Historic Preservation Office has reviewed the above-named project. This office expects that the proposed undertaking will have no effect on historic, architectural, or archaeological resources listed on or eligible for the National Register of Historic Places.

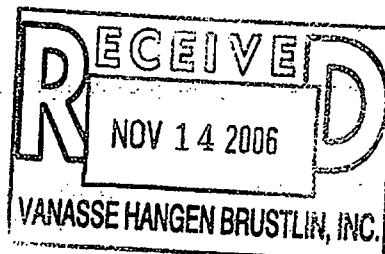
This office appreciates the opportunity to have reviewed and commented upon the proposed undertaking.

This comment is provided in accordance with the National Historic Preservation Act and the Connecticut Environmental Policy Act.

For further information please contact Dr. David A. Poirier, Staff Archaeologist.

Sincerely,

J. Paul Loether  
Division Director and Deputy  
State Historic Preservation Officer





**Dentamaro, Nicole**

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**From:** Natalie Ketcham [FIRSTSELECTMAN@TOWNOFREDDINGCT.ORG]

**Sent:** Wednesday, March 28, 2007 1:49 PM

**To:** Dentamaro, Nicole

In response to your inquiry, since the SHPO has already opined on the cell tower matter, the Town of Redding has no further comments. Thank you,

Natalie Ketcham  
Redding First Selectman  
[firstselectman@townofreddingct.org](mailto:firstselectman@townofreddingct.org)  
203-938-2002

3/28/2007

## CERTIFICATE OF PUBLICATION

State of Connecticut  
County of Fairfield

ss Ridgefield

I, Thomas B. Nash, being duly cautioned and sworn depose and say that I am the Publisher of Hersam Acorn, LLC. and that there was printed in The Redding Pilot, a weekly paper published in the Town of Ridgefield, CT on November 16, 2006 a copy of the attached order of notice.

Thomas B. Nash

Subscribed and sworn to this 17th day of November 2006 before me.

Linda Zarczynski

Notary Public  
Linda Zarczynski

My Commission Exp. Oct-31, 2009

Sprint PCS is proposing to install a new wireless telecommunications facility, consisting of a ±120-foot tall monopole, antenna, and associated ground equipment, located at 186 Black Rock Turnpike in Redding, Connecticut. The existing ±75-foot tall lattice tower facility will be removed. This new facility will provide improved wireless coverage to areas of Redding.

006

11-6

Parties interested in submitting comments regarding any potential effects of the proposed facility on historic properties may do so by sending comments to Vanasse Hangen Brustlin, Inc., 54 Tuttle Place, Middletown, CT, 06457, to the attention of Nicole Dentamaro. Questions about this proposed project may be submitted via regular mail, email to [ndentamaro@vhb.com](mailto:ndentamaro@vhb.com) <<mailto:ndentamaro@vhb.com>>, or by calling (860) 632-1500 ext. 2317.

VHB will be accepting comments and/or questions within 30 days of the date of this publication. Therefore, all comments or questions regarding this matter should be postmarked/submitted by no later than December 16, 2006.

VIB

**Dentamaro, Nicole**

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**From:** towernotifyinfo@fcc.gov  
**Sent:** Friday, August 25, 2006 3:02 AM  
**To:** Dentamaro, Nicole  
**Cc:** kim.pristello@fcc.gov; diane.dupert@fcc.gov  
**Subject:** NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER  
CONSTRUCTION NOTIFICATION INFORMATION - Email ID #1262707

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. NAGPRA Director Tamara Francis - Delaware Nation - Anadarko, OK - regular mail  
Exclusions: The Delaware Nation located in Anadarko, Oklahoma will not review proposed collocation projects. Please do not notify the Delaware Nation of such projects. There is a \$200 fee for the review of all projects. Send this payable to the Delaware Nation in the form of a check or money order.  
All projects for review by the Delaware Nation must pay the \$200 fee.

2. THPO Kathleen Knowles - Mashantucket Pequot Tribe - Mashantucket, CT - electronic mail  
Exclusions: For every tower construction this Tribe requires a site location map, site plans for every project that will result in ground disturbance, and a detailed description of the proposed site. If the proposed tower construction is on an already existing building, the Tribe would like to be informed of that as well.

3. Deputy THPO Doug Harris - Narragansett Indian Tribe - Wyoming, RI - electronic mail and

regular mail

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

4. SHPO John W Shannahan - Connecticut Historical Commission - Hartford, CT - electronic mail
5. SHPO Cara Metz - Massachusetts Historical Commission - Boston, MA - electronic mail
6. Deputy SHPO Brona Simon - Massachusetts Historical Commission - Boston, MA - electronic mail
7. SHPO Bernadette Castro - Parks, Recreation & Historic Preservation - Albany, NY - regular mail
8. Director Ruth L Pierpont - Bureau of Field Services, NY State Parks &\* Hist. Pres. - Waterford, NY - electronic mail
9. SHPO Frederick C Williamson - Rhode Island Historic Preservation & Heritage Comm - Providence, RI - regular mail
10. Deputy SHPO Edward F Sanderson - Rhode Island Historic Preservation & Heritage Comm - Providence, RI - electronic mail

"Exclusions" above set forth language provided by the Tribe, NHO, or SHPO. These exclusions may indicate types of tower notifications that the Tribe, NHO, or SHPO does not

wish to review. TCNS automatically forwards all notifications to all Tribes, NHOs, and SHPOs that have an expressed interest in the geographic area of a proposal, as well as Tribes and NHOs that have not limited their geographic areas of interest. However, if a proposal falls within a designated exclusion, you need not expect any response and need not pursue any additional process with that Tribe, NHO, or SHPO. Exclusions may also set forth policies or procedures of a particular Tribe, NHO, or SHPO (for example, types of information that a Tribe routinely requests, or a policy that no response within 30 days indicates no interest in participating in pre-construction review).

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 08/17/2006  
Notification ID: 19243  
Tower Owner Individual or Entity Name: VHB/Sprint PCS  
Consultant Name: Nicole Dentamaro  
Street Address: 54 Tuttle Place  
City: Middletown  
State: CONNECTICUT  
Zip Code: 06457  
Phone: 860-632-1500  
Email: ndentamaro@vhb.com

Structure Type: POLE - Any type of Pole  
Latitude: 41 deg 18 min 35.0 sec N  
Longitude: 73 deg 20 min 53.0 sec W  
Location Description: 186 Black Rock Turnpike  
City: Redding  
State: CONNECTICUT  
County: FAIRFIELD  
Ground Elevation: 660.0 meters  
Support Structure: 120.0 meters above ground level  
Overall Structure: 120.0 meters above ground level  
Overall Height AMSL: 780.0 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,  
Federal Communications Commission





Delaware Nation  
NAGPRA/Cultural Preservation Office  
P.O. Box 825, Anadarko, OK 73005  
Phone: (405) 247-2448 ~ Fax: (405) 247-9393

NAGPRA ext. 121  
Section 106 ext. 147  
Museum ext. 120  
Library ext. 134

04 December 2006

Attn: Nicole Dentamaro  
Vanasse Hangen Brustlin, Inc.  
Transportation Land Development Environmental Services  
54 Tuttle Place  
Middletown, Connecticut 06457-1847

RE: Proposed Wireless Telecommunication Facility Replacement  
Redding Fire Department, 186 Black Rock Turnpike, Redding, CT  
Sprint PCS Site CT54XC768, TCNS # 19243

Dear Ms. Dentamaro:


The Delaware Nation received a letter regarding the above referenced project on 10/31/ 2006. The Delaware Nation is committed to protecting archaeological sites that are important to tribal heritage, culture, and religion. Furthermore, the tribe is particularly concerned with archaeological sites that may contain human burial remains and associated funerary objects.

As described in your correspondence and, upon research of our database and files we find that the Lenape people occupied what is now Connecticut prehistorically. However, the location of the project does not endanger known archaeological sites of interest to the Delaware Nation within the region reference, Fairfield County, Connecticut. Please continue with the project as planned. However, should this project inadvertently uncover an archaeological site we request that you immediately contact the appropriate state agencies, as well as the Delaware Nation. Also, we ask that you halt all construction and ground disturbing activities until the tribe and these state agencies are consulted.

Please also note that the Delaware Nation is the only Federally Recognized Delaware/Lenape entity in the United States. Consultation regarding inadvertent discoveries should be made only with the Delaware Nation designated NAGPRA/Cultural Preservation staff, located in Anadarko, OK.

We appreciate your cooperation in contacting the Delaware Nation. Should you have any questions, feel free to contact me at (405) 247-2448 or by email [tfrancis@thedelawarenation-nsn.gov](mailto:tfrancis@thedelawarenation-nsn.gov).

Sincerely,



Tamara Francis, Director  
NAGPRA/Cultural Preservation

Mashantucket no effect - Reply to Proposed Tower Structure (Notification ID #19243) - Email ID #1268854

From: towernotifyinfo@fcc.gov  
Sent: Tuesday, August 29, 2006 10:18 AM  
To: Dentamaro, Nicole  
Cc: towernotifyinfo@fcc.gov; KKnowles@mptn-nsn.gov  
Subject: Reply to Proposed Tower Structure (Notification ID #19243) -  
Email ID #1268854

Dear Nicole Dentamaro,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from THPO Kathleen Knowles of the Mashantucket Pequot Tribe in reference to Notification ID #19243:

Dear Ms. Dentamaro,  
Regarding Notification ID # 19243, based on a review of the information provided, there does not appear to be any impact on potentially significant cultural resources for the Mashantucket Pequot Tribe.  
Kathleen Knowles,  
Tribal Historic Preservation Officer  
Mashantucket Pequot Tribe -

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 08/17/2006  
Notification ID: 19243  
Tower Owner Individual or Entity Name: VHB/Sprint PCS  
Consultant Name: Nicole Nicole  
Street Address: 54 Tuttle Place  
City: Middletown  
State: CONNECTICUT  
Zip Code: 06457  
Phone: 860-632-1500  
Email: ndentamaro@vhb.com

Structure Type: POLE - Any type of Pole  
Latitude: 41 deg 18 min 35.0 sec N  
Longitude: 73 deg 20 min 53.0 sec W  
Location Description: 186 Black Rock Turnpike  
City: Redding  
State: CONNECTICUT  
County: FAIRFIELD  
Ground Elevation: 660.0 meters  
Support Structure: 120.0 meters above ground level  
Overall Structure: 120.0 meters above ground level  
Overall Height AMSL: 780.0 meters above mean sea level

# NITHPO

## Narragansett Indian Tribal Historic Preservation Office

Narragansett Indian Longhouse  
P. O. Box 700  
Wyoming, Rhode Island 02898



13 December 2006

Nicole Dentamaro  
Environmental Engineer  
Vanasse Hangen Brustlin, Inc.  
54 Tuttle Place  
Middletown, CT 06457-1847

RE: NITHPO Section 106 Clearance  
TCNS #19243  
Redding, CT

Greetings, Nicole:

Site examination by a NITHPO representative of the proposed cell tower location designated TCNS #19243 located in Redding, CT has revealed no evidence of cultural resources that are of significance to the Narragansett Indian Tribe. On behalf of the Narragansett Indian Tribe, the NITHPO considers this project in compliance with and cleared of the Narragansett Tribe's Section 106 concerns.

If, however, during your construction excavation artifacts, features or human remains or other significant tribal cultural resources are encountered, please halt excavation and contact our Office and the State Historic Preservation Office for evaluation.

Thank you for your support of the FCC's government-to-government consultation with the Narragansett Indian Tribe under Section 106 of the National Historic Preservation Act.

Sincerely,

Doug Harris,  
Senior Deputy Tribal Historic Preservation Officer  
(401) 742-4035  
dh@nithpo.com



**WETLANDS DELINEATION REPORT**

Vanasse Hangen Brustlin, Inc.

Date: February 1, 2007

Project No.: 40938.76803

Prepared For: Mr. Steve Blevins  
Infinigy Engineering, PLLC  
300 Great Oaks Boulevard  
Suite 312  
Albany, NY 12203

Site Location: Sprint PCS Site I.D. CT54XC768  
186 Black Rock Turnpike  
Redding, Connecticut

Site Map: Lease Exhibit Plan, 6/16/06, Infinigy

Inspection Date: September 24, 2006

Field Conditions: Weather: cloudy, low 80's      General Soil Moisture: moist  
Snow Depth: 0 inches      Frost Depth: 0 inches

**Type of Wetlands Identified and Delineated:**

Connecticut Inland Wetlands and Watercourses ☒  
Tidal Wetlands ☐  
U.S. Army Corps of Engineers ☐

Local Regulated Upland Review Areas: Wetlands: 100 feet      Watercourses: 100 feet

Field Numbering Sequence of Wetlands Boundary: WF 1 to 8  
[as depicted on attached wetland sketch map]

The classification systems of the National Cooperative Soil Survey, the U.S. Department of Agriculture, Natural Resources Conservation Service, County Soil Survey Identification Legend, Connecticut Department of Environmental Protection and United States Army Corps of Engineers New England District were used in this investigation.

All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

The wetlands delineation was conducted and reviewed by:

Dean Gustafson  
Professional Soil Scientist

Enclosures

54 Tuttle Place  
Middletown, Connecticut 06457-1847  
860.632.1500 • FAX 860.632.7879  
email: info@vhb.com  
www.vhb.com

# Attachments

- 
- Wetland Delineation Field Form
  - Soil Map
  - Soil Report
  - Wetland Delineation Sketch Map



# Wetland Delineation Field Form

Project Address:	186 Black Rock Tpk Redding, CT	Project Number:	40938.76803
Inspection Date:	9/24/06	Inspector:	DEAN GUSTAFSON
Wetland I.D.:	1		

Field Conditions:	Weather: cloudy, low 80's	Snow Depth:	none
	General Soil Moisture: moist	Frost Depth:	none
Type of Wetland Delineation:	Connecticut <input checked="" type="checkbox"/>		
	ACOE <input type="checkbox"/>		
	Tidal <input type="checkbox"/>		
Field Numbering Sequence:	WF 1 to 8		

## WETLAND HYDROLOGY:

### Nontidal

Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated - seepage <input checked="" type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments:		

### Tidal

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>	
Comments: N/A		

## WETLAND TYPE:

### System

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments:		

### Class

Emergent Marsh <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	
Comments: wetland boundary at toe of fill slope		

## WATERCOURSE TYPE:

Upper Perennial <input type="checkbox"/>	Lower Perennial <input type="checkbox"/>	Intermittent <input checked="" type="checkbox"/>
Tidal <input type="checkbox"/>		
Comments: w/in interior of wetland		

## SPECIAL AQUATIC HABITAT:

Vernal Pool <input type="checkbox"/>	Other <input type="checkbox"/>	
Comments: N/A		

## DOMINANT PLANTS:

red maple	
spicebush	
Japanese barberry	
winged euonymus	
green ash	
tussock sedge	
shunk cabbage	

# SOIL SURVEY OF STATE OF CONNECTICUT

Sprint PCS CT54XC768



USDA Natural Resources Conservation Service

Web Soil Survey 1.1  
National Cooperative Soil Survey


9/24/2006  
Page 1 of 3



# SOIL SURVEY OF STATE OF CONNECTICUT

Sprint PCS CT54XC768

## MAP LEGEND

-  Soil Map Units
-  Cities
-  Detailed Counties
-  Detailed States
-  Interstate Highways
-  Roads
-  Rails
-  Water
-  Hydrography
-  Oceans
-  Escarpment, bedrock
-  Escarpment, non-bedrock
-  Gully
-  Levee
-  Slope
-  Blowout
-  Borrow Pit
-  Clay Spot
-  Depression, closed
-  Eroded Spot
-  Gravel Pit
-  Gravelly Spot
-  Gully
-  Lava Flow
-  Landfill
-  Marsh or Swamp
-  Miscellaneous Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Slide or Slip
-  Sinkhole
-  Sodic Spot
-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Perennial Water
-  Wet Spot

## MAP INFORMATION

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>

Coordinate System: UTM Zone 18

Soil Survey Area: State of Connecticut  
Spatial Version of Data: 3  
Soil Map Compilation Scale: 1:12000

Map comprised of aerial images photographed on these dates:  
4/3/1991

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend Summary

## State of Connecticut

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Ridgebury, Leicester, and Whitman soils, extremely stony	3.6	27.2
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes	5.5	42.2
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes	4.0	30.7

## Map Unit Description (Brief)

State of Connecticut

[Only those map units that have entries for the selected non-technical description categories are included in this report]

**Map Unit:** 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

**Description Category:** SOI

### *Ridgebury, Leicester And Whitman Soils, Extremely Stony*

*This map unit is in the New England and Eastern New York Upland, Southern Part Major Land Resource Area. The mean annual precipitation is 37 to 50 inches (940 to 1270 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 40 percent Ridgebury soils, 35 percent Leicester soils, 15 percent Whitman soils. 10 percent minor components.*

#### *Ridgebury soils*

*This component occurs on upland drainageway and depression landforms. The parent material consists of lodgement till derived from granite, schist, and gneiss. The slope ranges from 0 to 5 percent and the runoff class is very low. The depth to a restrictive feature is 20 to 30 inches to densic material. The drainage class is poorly drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 2.5 inches (low) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is about 3 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s*

#### *Typical Profile:*

*0 to 1 inches; slightly decomposed plant material  
1 to 5 inches; fine sandy loam  
5 to 14 inches; fine sandy loam  
14 to 21 inches; fine sandy loam  
21 to 60 inches; sandy loam*

#### *Leicester soils*

*This component occurs on upland drainageway and depression landforms. The parent material consists of melt-out till derived from granite, schist, and gneiss. The slope ranges from 0 to 5 percent and the runoff class is very low. The depth to a restrictive feature is greater than 60 inches. The drainage class is poorly drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 7.4 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is about 9 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s*

#### *Typical Profile:*

*0 to 1 inches; moderately decomposed plant material  
1 to 7 inches; fine sandy loam  
7 to 10 inches; fine sandy loam  
10 to 18 inches; fine sandy loam  
18 to 24 inches; fine sandy loam  
24 to 43 inches; gravelly fine sandy loam  
43 to 65 inches; gravelly fine sandy loam*

#### *Whitman soils*

*This component occurs on upland drainageway and depression landforms. The parent material consists of lodgement till derived from gneiss, schist, and granite. The slope ranges from 0 to 2 percent and the runoff class is very low. The depth to a restrictive feature is 12 to 20 inches to densic material. The drainage class is very poorly drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 1.9 inches (very low) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is occasional. The minimum depth to a seasonal water table, when present, is about 0 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s*

#### *Typical Profile:*

*0 to 1 inches; slightly decomposed plant material  
1 to 9 inches; fine sandy loam  
9 to 16 inches; fine sandy loam  
16 to 22 inches; fine sandy loam  
22 to 60 inches; fine sandy loam*



## Map Unit Description (Brief)

State of Connecticut

Map Unit: 84B - Paxton and Montauk fine sandy loams, 3 to 8 percent slopes

Description Category: SOI

### *Paxton And Montauk Fine Sandy Loams, 3 To 8 Percent Slopes*

*This map unit is in the New England and Eastern New York Upland, Southern Part Major Land Resource Area. The mean annual precipitation is 35 to 50 inches (889 to 1270 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 55 percent Paxton soils, 30 percent Montauk soils. 15 percent minor components.*

#### *Paxton soils*

*This component occurs on upland hill and drumlin landforms. The parent material consists of lodgement till derived from granite, gneiss, and schist. The slope ranges from 3 to 8 percent and the runoff class is medium. The depth to a restrictive feature is 20 to 40 inches to densic material. The drainage class is well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 3.4 inches (moderate) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is about 24 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 2e*

#### *Typical Profile:*

*0 to 8 inches; fine sandy loam  
8 to 15 inches; fine sandy loam  
15 to 26 inches; fine sandy loam  
26 to 65 inches; gravelly fine sandy loam*

#### *Montauk soils*

*This component occurs on upland hill and drumlin landforms. The parent material consists of sandy lodgement till derived from granite and gneiss. The slope ranges from 3 to 8 percent and the runoff class is low. The depth to a restrictive feature is 20 to 38 inches to densic material. The drainage class is well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 3.3 inches (moderate) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is about 27 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 2e*

#### *Typical Profile:*

*0 to 4 inches; fine sandy loam  
4 to 14 inches; fine sandy loam  
14 to 25 inches; sandy loam  
25 to 39 inches; gravelly loamy coarse sand  
39 to 60 inches; gravelly sandy loam*

## Map Unit Description (Brief)

State of Connecticut

Map Unit: 84C - Paxton and Montauk fine sandy loams, 8 to 15 percent slopes

Description Category: SOI

### *Paxton And Montauk Fine Sandy Loams, 8 To 15 Percent Slopes*

*This map unit is in the New England and Eastern New York Upland, Southern Part Major Land Resource Area. The mean annual precipitation is 35 to 50 inches (889 to 1270 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 55 percent Paxton soils, 30 percent Montauk soils. 15 percent minor components.*

#### *Paxton soils*

*This component occurs on upland hill and drumlin landforms. The parent material consists of lodgement till derived from granite, gneiss, and schist. The slope ranges from 8 to 15 percent and the runoff class is medium. The depth to a restrictive feature is 20 to 40 inches to densic material. The drainage class is well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 3.4 inches (moderate) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is about 24 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 3e*

#### *Typical Profile:*

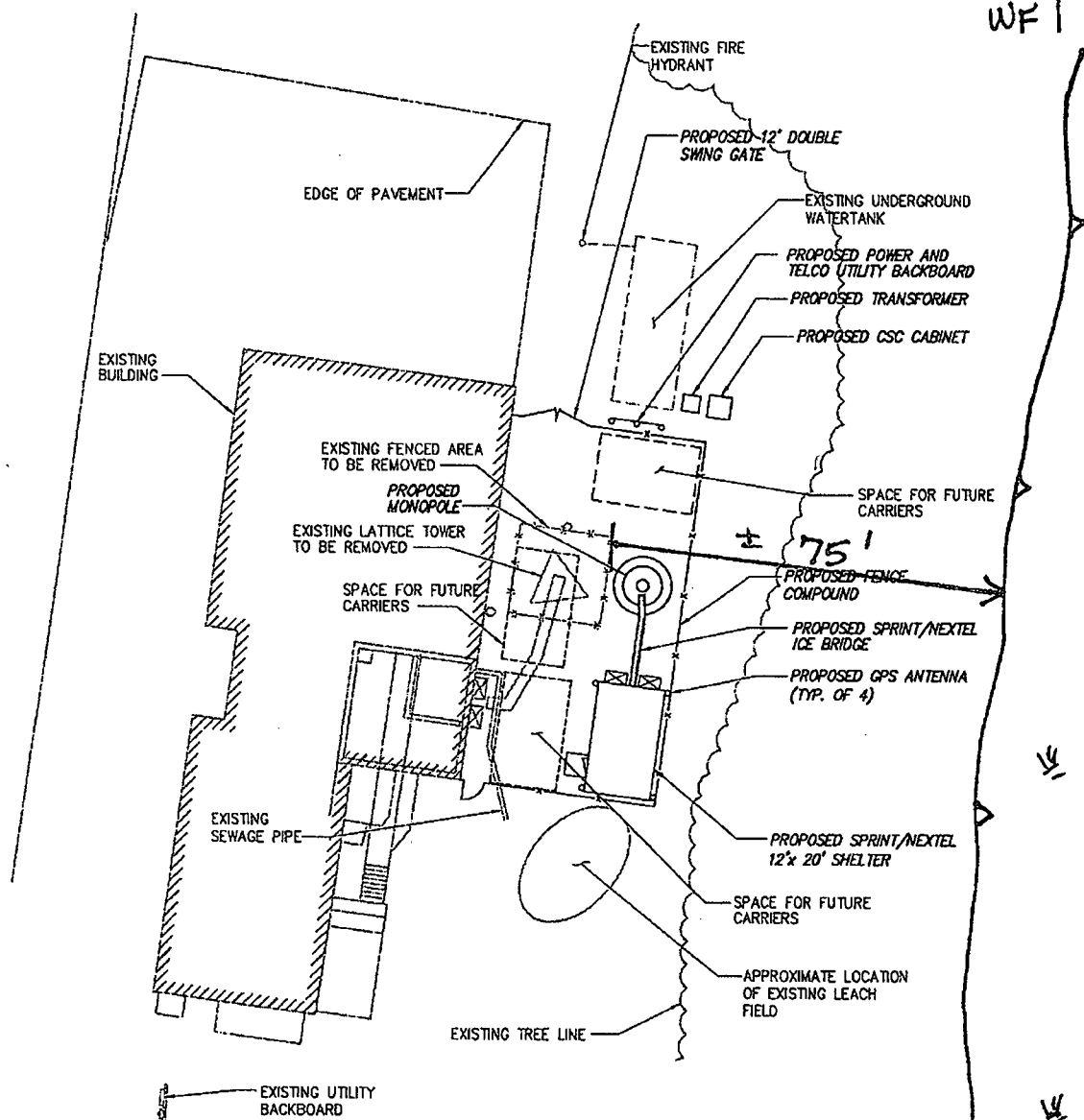
*0 to 8 inches; fine sandy loam  
8 to 15 inches; fine sandy loam  
15 to 26 inches; fine sandy loam  
26 to 65 inches; gravelly fine sandy loam*

#### *Montauk soils*

*This component occurs on upland hill and drumlin landforms. The parent material consists of sandy lodgement till derived from granite and gneiss. The slope ranges from 8 to 15 percent and the runoff class is low. The depth to a restrictive feature is 20 to 38 inches to densic material. The drainage class is well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 3.3 inches (moderate) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is about 27 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 3e*

#### *Typical Profile:*

*0 to 4 inches; fine sandy loam  
4 to 14 inches; fine sandy loam  
14 to 25 inches; sandy loam  
25 to 39 inches; gravelly loamy coarse sand  
39 to 60 inches; gravelly sandy loam*



Vanasse Hangen Brustlin

WETLAND SKETCH

9/24/06 DEG

wetland flags: WF 1 to 8

ENLARGED SITE PLAN



NOTE: OWNER AND SPRINT PCS MAY, AT SPRINT PCS'S OPTION, REPLACE THIS EXHIBIT WITH AN EXHIBIT SETTING FORTH THE LEGAL DESCRIPTION OF THE PROPERTY ON WHICH THE SITE IS LOCATED AND/OR AN AS-BUILT DRAWING DEPICTING THE SITE.

OWNER INITIALS:	DATE:
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MAHWAH, NJ 07495

**infinigy**  
engineering

300 Great Oaks Boulevard  
Suite 312, Albany, NY 12203  
OFFICE: (518) 690-0780  
FAX: (518) 690-0793

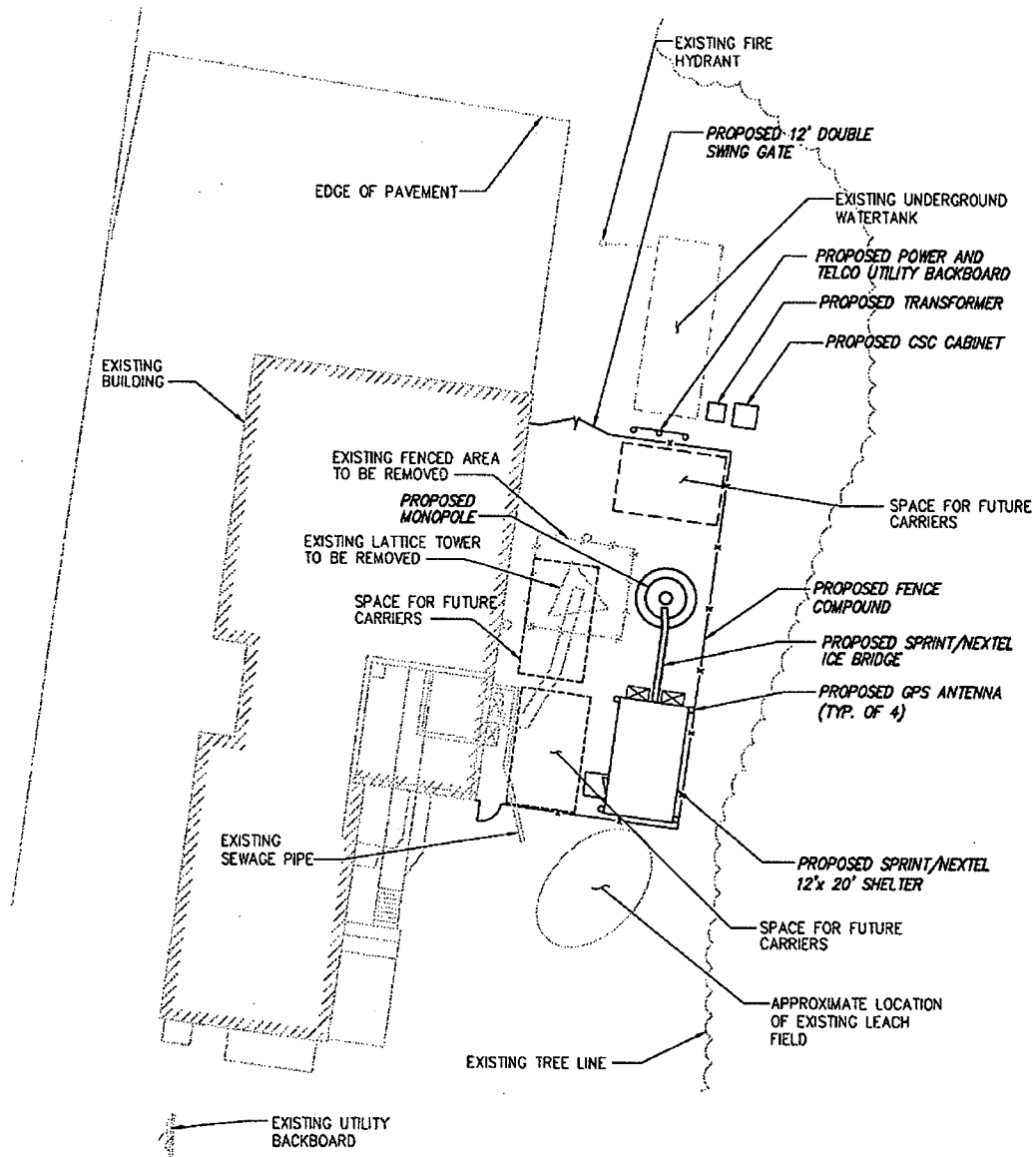
APPROX. SCALE  
AS NOTED

DATE:  
6/16/2006  
SITE ADDRESS:

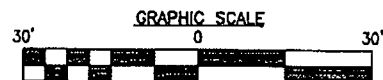
LEASE EXHIBIT PLAN

SITE I.D. CT54XC768

186 BLACK ROCK TURNPIKE  
REDDING, CT 06896



## ENLARGED SITE PLAN



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		DATE: 6/16/2006	SITE I.D. CT54XC768
		SITE ADDRESS: 186 BLACK ROCK TURNPIKE REDDING, CT 06896	

PROPOSED SPRINT/NEXTEL PANEL  
ANTENNAS (TYP. OF 12  
ANT.)

FUTURE CARRIER PANEL  
ANTENNAS

PROPOSED NEW  
MONOPOLE

EXISTING NEXTEL ANTENNAS  
TO BE REMOVED

EXISTING LATTICE TOWER  
TO BE REMOVED

EXISTING WOOD POLE  
WITH SIREN

CENTERLINE OF EXISTING NEXTEL ANTENNAS = 75' AGL

CENTERLINE OF FUTURE CARRIER ANTENNAS = 90' AGL

CENTERLINE OF FUTURE CARRIER ANTENNAS = 100' AGL

CENTERLINE OF FUTURE CARRIER ANTENNAS = 110' AGL

CENTERLINE OF PROPOSED SPRINT/NEXTEL ANTENNAS = 120' AGL

ELEVATION  
NOT TO SCALE

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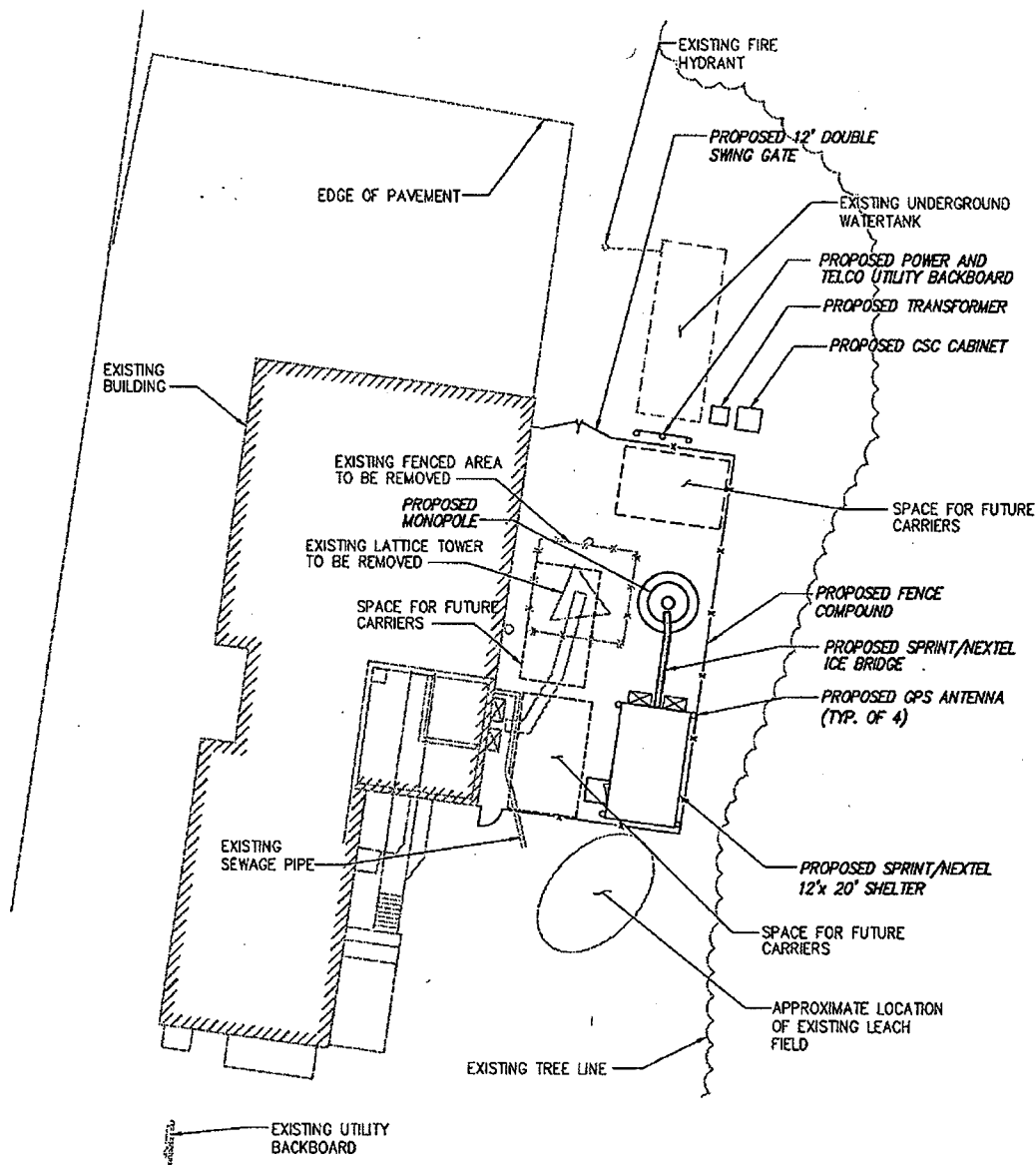
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6/16/2006

SITE ADDRESS:

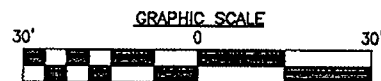
186 BLACK ROCK TURNPIKE  
REDDING, CT 06896

LEASE EXHIBIT PLAN

SITE I.D. CT54XC768



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6/16/2006  
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186 BLACK ROCK TURNPIKE  
REDDING, CT 06896

**LEASE EXHIBIT PLAN**

SITE I.D. CT54XC768

PROPOSED SPRINT/NEXTEL PANEL  
ANTENNAS (TYP. OF 12  
ANT.)

FUTURE CARRIER PANEL  
ANTENNAS

PROPOSED NEW  
MONOPOLE

EXISTING NEXTEL ANTENNAS  
TO BE REMOVED

EXISTING LATTICE TOWER  
TO BE REMOVED

EXISTING WOOD POLE  
WITH SIREN

CENTERLINE OF EXISTING NEXTEL ANTENNAS = 75' AGL

CENTERLINE OF FUTURE CARRIER ANTENNAS = 90' AGL

CENTERLINE OF FUTURE CARRIER ANTENNAS = 100' AGL

CENTERLINE OF FUTURE CARRIER ANTENNAS = 110' AGL

CENTERLINE OF PROPOSED SPRINT/NEXTEL ANTENNAS = 120' AGL

ELEVATION  
NOT TO SCALE

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SPRINT PCS INITIALS:	DATE:

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